

$^{27}\text{Al}(^{19}\text{F},2\text{p}\gamma) \quad \textbf{1976Po03}$

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Jun Chen, Balraj Singh and John A. Cameron		NDS 112, 2357 (2011)	31-Jul-2011

1976Po03: E=40 MeV ^{19}F beam incident on a target of $350 \mu\text{g}/\text{cm}^2$ aluminum evaporated on a tungsten backing. Ge(Li) detectors for detecting γ -rays. Measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin. Deduced information mainly for ^{43}Ca and ^{43}Sc ; also deduced $T_{1/2}$ for ^{44}Ca levels of 3285 and 2283 keV using Recoil Distance Method (RDM).

 ^{44}Ca Levels

$E(\text{level})^\dagger$	$J^\pi \ddagger$	$T_{1/2}^\#$
0	0^+	
1157	2^+	
2283		16 ps 5
3285	6^+	<17 ps

† From least-squares fit to $E\gamma$ data.

‡ From Adopted Levels.

$^\#$ From RDM ([1976Po03](#)).

 $\gamma(^{44}\text{Ca})$

E_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π
1002	3285		2283	
1126	2283	6^+	1157	2^+

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Level Scheme

